YAKOVLEV, L. YA.

VOLKOV, S.G.; YAKOVLEV, L.Ya.

During the election campaign. Vest. sviazi 17 no.3:24-26 Mr '57.
(Telecommunication) (MLRA 10:4)

Yakovlev, L. Ya

AUTHOR: Kiyashko, A.V. and Yakovlev, L.Ya. 111-58-5-13/27

TITLE: Radio Operators-Innovators (Radisty- novatory). Rationalizers in the Battle for Technical Progress(Ratsionalizatory v bor'be za tekhnicheskiy progress).

PERIODICAL: Vestnik Svyazi, Nr 5, 1958, pp 23-25(USSR).

ABSTRACT: This article deals with a radio enterprise which has many innovators. The number of such "rationalizers" and their improvement suggestions increases from year to year. M.V. Artem'yev, Shift Supervisor, together with Ye.N. Molodtsov, suggested a system of remote tuning of transmitter to fixed waves. The principle of this system is described. M.V. Artem'yev, in cooperation with P.I. Udalov, is developing a simple electronic protective device, which will increase the operating reliability of the equipment and reduce the power consumption of transmitters. Ye.N. Molodtsov, together with Frolov, Rabov and others, made an improvement suggestion for adapting the submodulator to the cathode charge system with a simultaneous lowering of the voltage. The laboratory engineer, G.I. Sutormin, recently developed a reserve quartz exciter for "KVM-120" type transmitters.The design of a dismountable transmit-

Card 1/2

Radio Operators as Innovators. Rationalizers in the Battle for Technical Progress.

ting antenna of "SG-4/4" type was developed under the direction of the senior engineer of the antenna group, V.P. Belousov, as well as the rebuilding of the "RG" and "RGD" type antennas. N.I. Karasev is chief power engineer of the enterprise and 5th year student at the "Vsesoyuznyy zaochnyy elektrotekhnicheskiy institut" (All-Union Electrotechnical Institute by Correspondence). S.M. Tivin, engineer of the electric shop, developed the system of automatic series-switching of the heating and bias blocks and a system of automatic multiple-grid protection of mercury rectifiers. The names of V.F. Korablev, assistant to the shift supervisor and A.I. Artomonov, milling machine operator, are also cited. The acting engineer S.M. Tivin, the chief engineer V.P. Belousov, the milling machine operator A.I. Artamonov, the chief engineer Ye.N. Molodtsov, the managing engineer of the enterprise N.V. Yulovskiy, the chief technician V.F. Korablev and the chief power engineer N.I. Karasev are also mentioned. There is one photo.

AVAILABLE: Library of Congress

Card 2/2 1. Radio engineering-Design

YAKOVLEV, L.YE.

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Cultural communication office. Vest.sviazi 18 no.1:24-27 Ja '58.
(MIRA 11:1)

(Telecommunication)
(Postal service)

Yakovlev, L.Ya

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Communications women of Elektrostal'. Vest.sviazi 18 no.3:21-23 Mr '58. (MIRA 11:4)

(Elektrostal'--Telecommunication)
(Elektrostal'--Postal service)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Improving the cultural and political standards of communication personnel. Vest.sviazi 18 no.12:28-29 D '58. (MIRA 11:12)
(Telecommunication--Employees)

SOV/111-59-1-28/35

AUTHORS: Volkov, S.G., Yakovlev, L.Ya.

TITLE: A Well-Organized Communication Enterprise in the Country (Kul'turnoye predpriyatiye svyazi na sele)

PERIODICAL: Vestnik svyazi, 1959, Nr 1, pp 30 - 34 (USSR)

ABSTRACT: The article describes in detail the installations and operations of the communications center in Novo-Petrovskoye, a rural center in the Moscow Oblast'. The communications center is headed by V.I. Meleshko. The telephone office at present deals with 300 automatic dials with ample room for more. The ST-35 apparatus permits telephone calls and telegraphic communication with Moscow and other Soviet cities. Inter-area communications offices of the district each have 20 automatic dials which includes the village councils, the sovkhozes and kolkhozes. More of such inter-area offices are being established. The Novo-Petrovskoye communications center also contains a 2-km radio rediffusion station with about 4,500 individual and community subscribers. There

Card 1/2

A Well-Organized Communication Enterprise in the Country

are also 400 TV sets in the district. The mail processing system is described in detail. The center's party organization consists of only 13 party members and is headed by the deputy office head I.O. Stuchilov. There are 10 photos.

Card 2/2

SOV/111-59-2-15/27

6(2)

AUTHOR: Yakovlev, L.Ya.

TITLE: Production Successes of Leading Brigades of the Central Telegraph Office of the USSR (Proizvodstvennyye uspekhi peredovykh brigad tsentral'nogo telegrafa SSSR)

PERIODICAL: Vestnik svyazi, 1959, Nr 2, pp 25-26 (USSR)

ABSTRACT: The article describes the activity of the work brigades at the Central Telegraph office of the USSR, with particular attention to the brigade of Telegraphist R. Silova. The work of the brigades has long been outstanding. In 1958 the receipts plan was fulfilled 108%, giving the state more than 9 million rubles above the quota. Delays in the transmission of telegrams were cut from 3.6% (1957) to 2.7%, and waste from 0.13% to 0.08%. The number of complaints has also dropped. At the present time there are 24 brigades competing for the honorary title "Brigade of Communist Labor", with about 50 members. Two brigades are mentioned specially, that of M.Raskatayeva, and that of R.Silova. In November, 1958

Card 1/2

Production Successes of Leading Brigades of the Central Telegraph Office of the USSR

the latter fulfilled its output norms by 136%, and in December, by 146% (where 125% was considered obligatory). Much attention is given to mass competition of the brigades by the Party committee, the workers' committee, the Komsomol committee, and the heads of the telegraph office. A conference of workers has been organized, and the telegraph office's paper "The Soviet Telegraphist" devotes a large amount of space to the work of competitors. The balance of the article is devoted to more detailed description of the work of Silova's brigade, and to Miss Silova herself, and is largely of political interest. Brigade Leaders N.Lobanova, V.Khar'kova, V.Shesheleva, V.Sokolova, V.Voronova, A.Bourova, V.Suvorova, and V.Nikolayev; Telegraphists L.Krupina, V.Kharlamova, Yu.Vashetkina, and T.Pudkova, and Brigade Members L. Krupina, G.Sviridova, and A.Kapustina are mentioned in the article. There is 1 photograph.

SOV/111-59-3-11/26

6(4)
AUTHOR: Yakovlev, L.Ya.

TITLE: In the Homeland of A.S. Popov (Na rodine A.S. Popova)

PERIODICAL: Vestnik svyazi, 1959, Nr 3, pp 16-18 (USSR)

ABSTRACT: The first part of this article, dedicated to the 100th anniversary of A.S. Popov's birth, is a biographical sketch of the early years of his life; it describes the house in Krasnotur'insk (formerly Tur'inskiye Rudniki), where he spent many of his childhood years, now a museum in his name, and location of the headquarters and radio station of the DOSAAF radio club, as well as the town itself, and the changes that have taken place there during the past few years. Many of the material benefits of the town's development are enumerated. In particular, the present conditions of the local communications facilities, future needs, and some of the plans for their improvement, are broadly outlined. The following persons' names appear in the text: Deputy Chief of the rayon com-

Card 1/2

munications bureau, Gilev; Engineer Kellerman, and Head Foreman Ivanyutin of the communications shop of the aluminum works in Krasnotur'insk; First Secretary of the municipal committee (gorkom) of the CPSU, A.Ye. Panev. There are 3 photographs.

SOV/111-59-5-20/32

6(7)

AUTHORS: Volkov, S.G., Yakovlev, L.Ya.

TITLE: In the Interests of the Population

PERIODICAL: Vestnik svyazi, 1959, Nr 5, pp 22-24 (USSR)

ABSTRACT: The article contains a description of the Zhukovskiy post office and its communication facilities. Due to a considerable growth of Zhukovskiy since 1953, telegraph communications facilities have been automated. Moscow and three other city offices may be contacted using the high-speed equipment "ST-35". An automatic telephone exchange was built last year which ultimately have a capacity of 6000 numbers. The radio rebroadcasting station is equipped with two TU-5-3 units, having a total power of 10 kw. There are about 7000 wire broadcast receivers in Zhukovskiy which are serviced from the rebroadcasting station. Further, there are 4056 TV sets and 6687 radio receivers. For all communication facilities there is one common generator hall and one common

Card 1/2

battery hall. The Zhukovskiy post office is headed by M.U. Filippov. The post office workers often submit suggestions for improvements. About every third communication worker has submitted one suggestion. Great attention is paid to proper training of the post office employees. There are 6 photographs.

6(2) SOV/111-59-9-23/31

AUTHOR: Yakovlev, L.Ya.

TITLE: Mail on the Air Lines

PERIODICAL: Vestnik svyazi, 1959, Nr 9, pp 27-28 (USSR)

ABSTRACT: This article deals with the air transport of mail, primarily with the work of the collective of the Otdeleniye perevozki pochty (Postal Transport Section (OPP) at Bykovo Airport, Moscow. There are, states the author, more than 30 daily scheduled flights carrying mail from Bykovo to Alma-Ata, Ust'-Kamenogorsk, Kustanay, Noril'sk, Syktyvkar, Ukhta, Kemerovo, Magnitogorsk, Omsk, Chelyabinsk, Baku, Astrakhan, Stalino, Perm', Kuybyshev, Kishinev, Krasnodar and other cities; there are also as many as 15 non-scheduled mail flights daily. Handling of the post and press at the OPP is described, and "socialist commitments" of the OPP collective, long and short term plans and their fulfillment, organization of work schedules, and awards received by the collective are discussed. The work and activities of the sorting brigades of G.F. Pronina and M.I.

Card 1/2

Kuznetsova, brigade leaders, are also mentioned. Heading the collective is S.K. Alekhin, chief of the OPP; I.I. Sukhanov is deputy chief of the OPP; operations officers are N.A. Koshevarov, secretary of the party organization, and I.I. Kalinkin, chairman of the mestkom (local trade union committee); also mentioned are V.I. Vasil'yeva, V.V. Karmashova, K.V. Guseva and V.A. Ivanova, members of the sorting brigade under Pronina. There are 3 photographs.

YAKOVLEV, L.Ya.

Experiment in the Gorkiy Technological Study Room. Vest. sviazi 19 no.7:27-29 Jl '59. (MIRA 13:8)
(Gorkiy—Technical education)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Mail is carried by airplanes. Vest. sviazi 20 no.8:25-28 Ag'60.
(MIRA 13:10)

(Air mail service)

VOLKOV S.G.; YAKOVLEV, L.Ya.

Development is taking place in every field of communication and service to the public is improving. Vest. sviazi 21 no.3:17-19 Mr '61. (MIRA 14:6)

(Telecommunication)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

On air mail routes. Vest. sviazi 21 no.7:25-27 Jl '61.
(MIRA 16:7)

(Air mail service)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

An important aspect in rendering good service to the public. Vest. sviazi 22 no.2:28-31 F '62. (MIRA 15:2)
(Postal service)

YAKOVLEV, L.Ya.

An outstanding mail transportation department. Vest. sviazi 22 no.3:20-22 Mr '62. (MIRA 15:2)
(Lithuania--Postal service)

YAKOVLEV, L.Ya.

The inhabitants are pleased with the work of the communication workers. Vest. sviazi 22 no.4:25-27 Ap '62. (MIRA 15:4)
(Tiflis—Telecommunication)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

A feeling of the new. Vest. sviazi 22 no.9:27 S '62. (MIRA 15:9)

(Odessa--Postal service)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

The present level of telecommunication enables us to serve the people efficiently. Vest. sviazi 22 no.11:17-20 N '62. (MIRA 16:12)

YAKOVLEV, L.Ya.

The best telecommunication office of Adzharistan. Vest. sviazi 22 no.12:23-24 D '62. (MIRA 16:1)
(Adzharistan--Telecommunication--Employees)

YAKOVLEV, L.Ya.

Work problems are in the center of attention. Vest. sviazi 23 no.1: 27-29 Ja '63. (MIRA 16:3)

(Telephone--Employees)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

It will benefit agricultural administration and the rural population.
Vest. sviaz' 23 no.2:6-9 F '63. (MIRA 16:2)
(Telephone) (Postal service)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Creative initiative. Vest. sviazi 23 no.3:30-32 Mr '63.(MIRA 16:3)
(Moscow—Telecommunication) (Moscow—Postal service)

YAKOVLEV, L. Ya.

Development of a communist attitude toward work is the most important objective. Vest. sviazi 23 no.4:25-29 Ap '63. (MIRA 16:4)

(Telecommunication--Employees)

YAKOVLEV, L.Ya.

All hidden potentials are being utilized. Vest. sviazi 23 no.6:27-30 Je '63. (MIRA 16:8)

YAKOVLEV, L.Ya.

Leading agency of mail transportation workers. Vest. sviazi 23 no.7:22-25 Jl '63. (MIRA 17:2)

YAKOVLEV, L.Ya.

A competition produces good results. Vest. sviazi 23 no.9:26-28 S '63. (MIRA 16:10)

VOLKOV, S.G. ; YAKOVLEV, L.Ya.

In a consolidated district. Vest. sviazi 23 no.12:25-27 D '63.
(MIRA 17:2)

VOLKOV, S.G.; KIYASHKO, A.V.; YAKOVLEV, L.Ya.

Radio center deserving a high mark for its engineering excellence. Vest. sviazi 24 no.5:29-32 My '64.

(MIRA 17:6)

YAKOVLEV, L.Ya.

Contribution of the communication workers of Krasnograd to agricultural workers. Vest. sviazi 24 no.4:18-21 Ap '64. (MIRA 17:9)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

The mail is being transported by air. Vest. sviazi 24 no.8:16-19 Ag '64. (MIRA 17:10)

YAKOVLEV, I. Ya.

The public is grateful to telecommunication employees. Vest. sviazi 24 no.9:20-23 S '64. (MIRA 17:11)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

A well organized telecommunication department. Vest. sviazi 24 no.10:23-26 O '64. (MIRA 17:12)

VOLKOV, S.G., Yakovlev, L.Ya.

The public is our primary concern. Vest. sviazi 25 no.1:20-23 Ja '65. (MIRA 18:4)

1. Zamestitel' ministra svyazi SSSR.

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Agricultural workers should be provided with every means of communication. Vest.svlazi 25 no.2:17-20 F '65.

(MIRA 18:6)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Not being a laggard. Vest. sviazi 25 no.4:21-22 Ap '65.
(MIRA 18:6)

YAKOVLEV, L.Ya.

Telecommunication in the villages of the Orlov Province. Vest. sviazi 25 no.8:20-23 Ag '65. (MIRA 18:10)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Important is the cultivation of a communist outlook on work. Vest. sviazi 25 no.6:11-14 Je '65. (MIRA 18:11)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Work conscientiously and render high-quality service to the public.
Vest. sviazi 25 no.9:23-26 S '65. (MIRA 18:9)

YAKOVLEV, L.Ya.

Everyday life and work of rural communication workers.
Vest. sviazi 25 no.10:21-24 S '65. (MIRA 18:11)

VOLKOV, S.G.; YAKOVLEV, L.Ya.

Public interests are our primary concern. Vest. aviasi 25 no 11:24-27 N '65. (MIRA 18:12)

USSR/Electricity - Transmission Lines Nov 50
Hydroelectric Power Stations

"Super-Long-Distance Power Lines," M. Yakovlev

"Nauka i Zhizn'" No 11, pp 42, 43

The 1st operating model of the Kuybyshev hydroelec power station, consisting of 2 turbines, 2 generators, and a long-distance transmission line (represented by coils and capacitors), has been built at the Hydroelec Power Eng Lab, (director - Prof T. L. Zolotarev, Dr Tech Sci) of the Moscow Power Eng Inst. The work was directed by V. A. Venikov, Cand Tech Sci, and A. V. Ivanov-Smolenskiy, Cand Tech Sci, and Engineers L. S. Lifshits and O. I. Zeegofer

221T39

participated. The 2d model, when completed, will be connected into the Moscow Power System in order to study the operating conditions of the Kuybyshev station more thoroughly.

221T39

YAKOVLEV, M.

MINAKOV, A.; YAKOVLEV, M.

Results of mass training of miners in allied professions. Mast.ugl. 5 no.9:18 S '55. (MLRA 9:10)
(Mining engineering--Study and teaching)

AUTHOR: Yakovlev, M. (Engineer; Lieutenant colonel)

SOURCE CODE: UR/0317/66/000/010/0059/0061

ORG: none

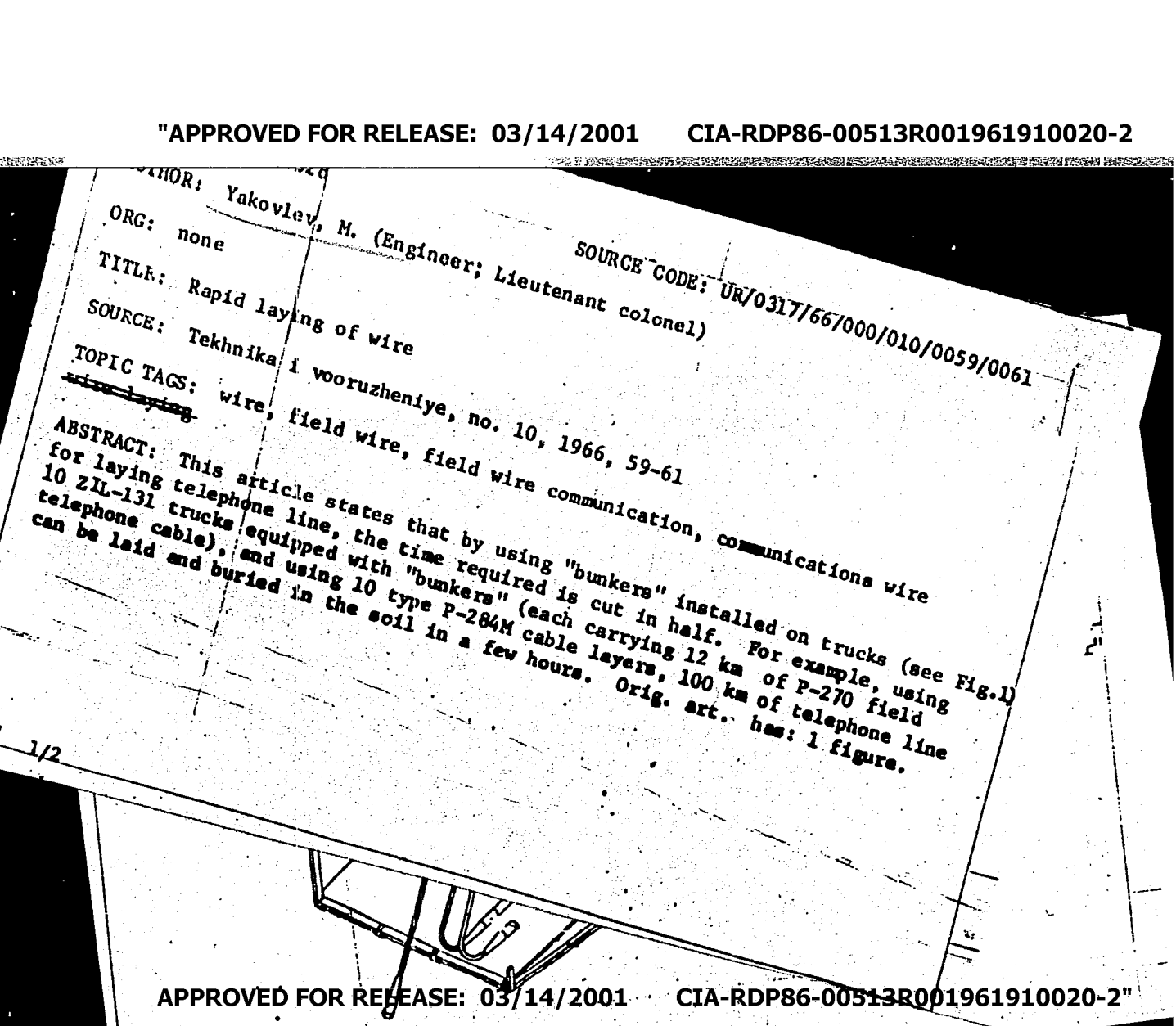
TITLE: Rapid laying of wire

SOURCE: Tekhnika i vooruzheniye, no. 10, 1966, 59-61

TOPIC TAGS: wire, field wire, field wire communication, communications wire

ABSTRACT: This article states that by using "bunkers" installed on trucks (see Fig.1) for laying telephone line, the time required is cut in half. For example, using 10 ZIL-131 trucks equipped with "bunkers" (each carrying 12 km of P-270 field telephone cable), and using 10 type P-284M cable layers, 100 km of telephone line can be laid and buried in the soil in a few hours. Orig. art. has: 1 figure.

1/2



SUB CODE: 13, 17/ SUBM DATE: none

Card 2/2

ACC NR: AP6034328

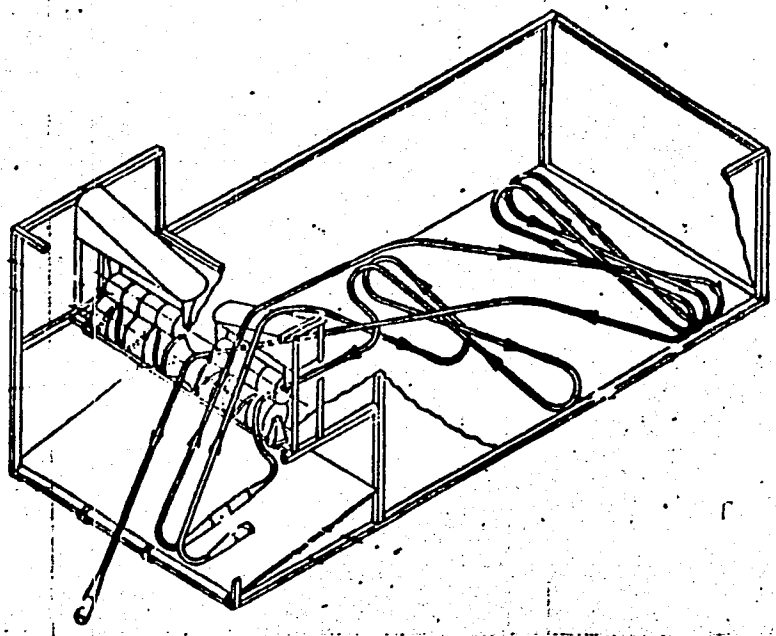


Fig. 1. Wire-laying "bunker"

SUB CODE: 13, 17/ SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910020-2"

YAKOVLEV, M., komandir korablya (Kuybyshev)

What is the reason for the underloading of airplanes. Grazh.av.13 no.3:36 Mr '56. (MLRA 9:7)
(Aeronautics, Commercial)

YAKOVLEV, M.

Mechanized washing device. Avt.transp. 34 no.3:32 Mr '56.
(MLRA 9:7)

1.Glavnyy inzhener Abkhazskoy passazhirskoy ATK.
(Moterbuses)

SHATALOV, I.; KNYAZEV, A.; YAKOVLEV, M.

Utilization of production potentialities in the transfer to a seven-hour workday. Sots.trud 4 no.12:110-114 D '59. (MIRA 13:6)

1. Nachal'nik, otdela organizatsii truda i zarplaty Bereznikovskogo azotnotukovogo zavoda (for Shatalov). 2. Nachal'nik otdela truda i zarplaty Orekhovo-Zuyevskogo zavoda "Karbolit" (for Knyazev). 3. Nachal'nik podotdela organizatsii truda Mosoblsovnarkhoza (for Yakovlev).
(Chemical industries--Labor productivity)
(Hours of labor)

YAKOVLEV, M., kand. ekon. nauk; YARTSEV, N., red.

[Use of plastics instead of metal] Plastmassy vmesto metalla. Moskva, Mosk. rabochii, 1965. 92 p. (MIRA 18:2)

YAKOVLEV, M.A.
YAKOVLYEV, M. A.

30249

O razvitii endospyeerma risa (Oryza Sativa L.) Trudy In-ta fiziologii rastyeniy im. Timiryazyeva, t. VI, vyp. 2, 1949, s. 296-302.--Bibliogr: 6 nazv.

Z. Zoologiya

SO: LETOPIS' NO. 34

FEDORENKO, N.; YAKOVLEV, M., kand.ekonom.nauk

Use of plastics in industry. NTO 6 no.2:5-8 F '64.
(MIRA 17:4)

1. Predsedatel' ekonomicheskoy komissii Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov, chlen-korrespondent AN SSSR (for Fedorenko).

YAKOVLEV, M.

In the name of the law.... Okhr. truda i sots. strakh. 3 no.9:50-54 S '60. (MIRA 14:4)

1. Prokuror Permskoy oblasti, gosudarstvennyy sovetnik yustitsii 3-go klassa.
(Perm Province--Labor laws and legislation)
(Perm Province--law enforcement)

FEDORENKO, N.; YAKOVLEV, M., inzhener-ekonomist

Specialization and concentration in the plastics industry.
Sots. trud 8 no.1:48-52 Ja '63. (MIRA 16:2)

1. Chlen-korrespondent AN SSSR (for Fedorenko).
(Plastics industry)

YAKOVLEV, M.

Design and maintenance of flash synchronizer systems. Sov.foto 21 no.11:27-29 N '61. (MIRA 14:11)
(Cameras)

YAKOVLEV, M.A.; YALYMOV, N.G.

Analysis of basic production processes in the layer caving system at the Aktyuz Mine. Izv.AN Kir SSR.Ser.est.tekh.nauk 2 no.2:33-53 '60. (MIRA 14:10)
(Aktyuz region--Mining engineering)

SHUPIKOV, V.A.; SHESTAKOV, V.A.; YALYMOV, N.G.; YAKOVLEV, M.A.

Shrinkage stoping system at the Aktyuz Mine and its efficiency. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 no.8:5-12 '60. (MIRA 13:12)

(Aktyuz region—Stoping (Mining))

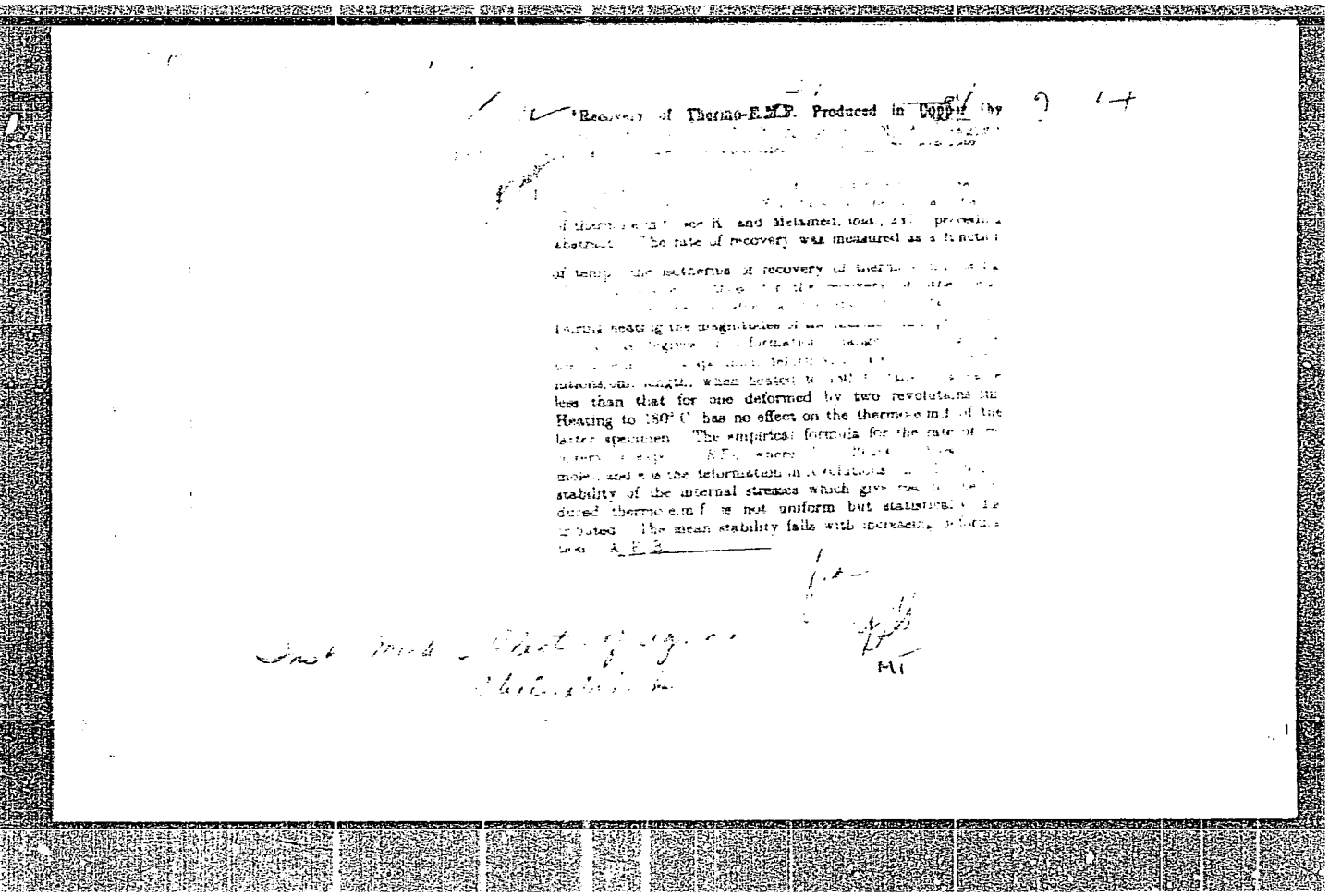
YAKOVLEV, M.

Century of the First International. Neftianik 9 no.9:3-4 S '64
(MIRA 18:2)

YAKOVLEV, M. A.

"Investigation of the Process of Removing Inducted Thermoelectromotive Force From Copper After Plastic Deformation." Cand Phys-Math Sci, Tomsk State U, Tomsk, 1954. (RZhFiz, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)



"Recovery of Thermo-E.M.F. Produced in Copper by

lees than that for one deformed by two revolutions
Heating to 180° C has no effect on the thermo-e.m.f. of the
latter specimen. The empirical formula for the rate of
stability of the internal stresses which give
duced thermo-e.m.f. is not uniform but statistical
tributed. The mean stability falls with increasing

20375
S/058/61/000/003/018/027
A001/A001

18.8100 1138, 1418, 1454

Translation from: Referativnyy zhurnal, Fizika, 1961, No. 3, pp. 338-339, # 3E460

AUTHOR: Yakovlev, M. A.

TITLE: Change of Induced Thermal EMF in Copper After Plastic Deformation

PERIODICAL: "Uch. zap. Chelyab. gos. ped. in-t", 1958, Vol. 5, No. 1, pp. 55-65

TEXT: The author studied the phenomenon of recovery of induced thermal emf e in copper. He established that the half-recovery time of e decreases strongly with increasing temperature and deformation degree. Isotherms of e recovery, which express the dependence of e on recovery time, cross each other. This indicates that recovery rate at any instant depends not only on the e-value present at the given instant, but also on its initial value. Thus initial deformation degree predetermines the course of recovery during its entire extension. Initial recovery rate is a temperature function of the following form: $v = v_0 \exp(-u/RT)$, where v_0 is certain constant of the material, u is energy of recovery activation. It decreases with increasing deformation degree according to the law: $u = 29{,}200 - 1{,}060\, n$ (cal/mol), where n is the number of twist revolutions per 1 cm of the

Card 1/2

Change of Induced Thermal EMF in Copper After Plastic Deformation

specimen length. It is shown that temperature stability of internal distortions in the metal is unequal and obeys a definite statistical distribution reflected by the temperature recovery coefficient. Temperature T_o, corresponding to the maximum of temperature recovery coefficient, depends on deformation degree and recovery time, and this dependence is manifested in the law of recovery equivalent states.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

24.1700

66598

SOV/139-59-3-6/29

AUTHOR: Yakovlev, M.A.

TITLE: On the Law of Equivalent States of Recovery in Destruction of Induced Thermoelectric Power

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 3, pp 35-40 (USSR)

ABSTRACT: Thermoelectric properties of metals are altered by plastic deformation and consequently thermo-e.m.f. exists between the deformed and non-deformed parts of a metal sample. The resultant thermoelectric power is known as "induced" thermoelectric power (Ref 1). The induced thermoelectric power (i.t.p.) is destroyed by annealing. A small proportion of the i.t.p. is retained as residual thermoelectric power. The residual thermoelectric power depends on the annealing temperature and decreases with increase of the latter. This means that the more stable lattice defects which are not removed at lower temperatures, disappear at higher temperatures. The present paper reports studies of the dependence of the residual thermoelectric power on temperature in copper. Fig 1 shows such a dependence for copper annealed for 40 min. The five curves in Fig 1 represent different degrees of deformation measured in terms of turns per 1 cm of the sample length

Card 1/5

On the Law of Equivalent States of Recovery in Destruction of Induced Thermoelectric Power

(deformation was of torsional type). With increase of the degree of deformation the region of recovery is displaced towards lower temperature. The temperature region in which recovery occurs is also displaced towards lower temperatures on increase of the annealing duration (Fig 2). The latter displacement decreases as the duration of annealing is increased. Graphical differentiation of the curves of Fig 1 yields the values of the temperature coefficient of recovery K , defined as

$$K = (1/\ell_0)(d\ell/dT) \qquad (1)$$

where ℓ_0 is the original thermoelectric power produced by a given deformation. Fig 3 shows the temperature dependence of the coefficient K in the case of 40 min annealing; curves 1-5 represent various degrees of deformation. Each of the K-curves in Fig 3 has a fairly clear maximum at a definite temperature T_0. The value of T_0 depends only on the degree of deformation and the duration of annealing. In order to find a quantitative relationship for this dependence of T_0 the author used the initial activation energy U as a measure of the

On the Law of Equivalent States of Recovery in Destruction of Induced Thermoelectric Power

original deformation. Table 1 gives the values of the ratio $C_t = T_o/U$ for durations of annealing from 2 min to 40 min. For a given duration of annealing the value of C_t was found to be fairly constant at various degrees of deformation. With increase of the duration of annealing the value of C_t fell according to

$$C_t = \frac{1}{R \ln(\nu t)} \qquad (2)$$

where R is the universal gas constant, ν is a quantity with the dimensions of frequency and its value is 2.6×10^8 sec^{-1}, and t is time in seconds. Since $C_t = T_o/U$ it follows that

$$T_o = \frac{U}{R \ln(\nu t)} \qquad (3)$$

The above equation is identical with the law of equivalent states of recovery (Ref 4). The time t in the above formula is usually considered as the duration of annealing which at a temperature T_o produces recrystallization, leading to a considerable recovery of the original properties

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of the metal. The temperature T_o divides the region of recovery into two approximately equal parts: in the first part the less stable lattice defects are removed and in the second part the more stable defects disappear. Eq (3) is further confirmed by the results obtained by the author in studies of recovery of the thermoelectric power in commercial iron. Fig 4 shows the temperature dependence of the residual thermoelectric power of iron deformed torsionally by 6 turns/cm and subjected to annealing for between 1 and 60 min (curves 1-4 respectively). Fig 4 shows that the recovery curves of iron are similar to those of copper (Fig 2). Graphical differentiation of the curves of Fig 4 yields the temperatures T_o at which the maxima of the coefficient K occur. When the reciprocals of T_o are plotted against ln(t), where t is the duration of annealing, a straight line is obtained (Fig 5) in full agreement with Eq (3). The author suggests that the recovery of the thermoelectric power in metals is due to self-diffusion; since the law of equivalent states may be deduced from the diffusion theory of relaxation (Ref 4).

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On the Law of Equivalent States of Recovery in Destruction of Induced Thermoelectric Power

There are 5 figures, 2 tables and 4 references, 3 of which are Soviet and 1 translation.

ASSOCIATION: Kuybyshevskiy industrial'nyy institut imeni V.V. Kuybysheva
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4

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Selecting rubber for the shock absorbers of the central support cones of the VL60 locomotive. Trudy TSNII MPS no.267:107-112 '63. (MIRA 16:11)

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Discussions. Sov.zdrav. 16 no.1:18-68 Ja '57. (MLRA 10:2)

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(Continued on next card)

KURASHOV, S.V.---- (continued) Card 2.

19. Sekretar' Borisovskogo gorodskogo komiteta Kommunisticheskoy partii Belorussii. (for Denisevich). 20. Zamestitel' predsedatelya Soveta Ministrov Belorusskoy SSR (for Kiselev). 21. Zamestitel' predsedatelya Krasnodarskogo krayispolkoma (for Krivenko). 22. Zamestitel' predsedatelya Karagandinskogo oblaspolkoma. (for Minzhazarova). 23. Zamestitel' predsedatelya Gosplana SSSR. (for Yakovlev) 24. Zaveduyushchiy otdelom sotsial'nogo strakhovaniya Vsesoyuznogo TSentral'nogo Soveta professional'nykh soyuzov (for Kozlov). 25. Predsedatel' TSentral'nogo Komiteta profsoyuza meditsinskikh rabotnikov (for Pokrovskiy). 26. Predsedatel' Ispolkoma Soyuza Obshchestv Krasnogo Kresta i Krasnogo Polumesyatsa SSSR (for Miterev)
(PUBLIC HEALTH)

YAKOVLEV, M.F.

USSR/Chemistry - Chemical production

FD-1560

Card 1/1 : Pub. 50-17/25

Authors : Rubinchik, S. M., Yakovlev, M. F.

Title : Socialistic competition within the occupational branches [News Section]

Periodical : Khim. prom., No 8, pp 498-99 (50-51), Dec 1954

Abstract : Improvements achieved by individual workers in various branches of the chemical industry are described. Particular attention is paid to the operation of pyrite furnaces in the sulfuric acid industry.

Institution : Central Committee, Trade Union of Workers of the Chemical Industry

Submitted :

YAKOVLEV, M. F.

USSR/Chemistry - Miscellaneous FD-1813

Card 1/1 Pub 50-17/19

Author : Pumpyanskiy, I. M., Yakovlev, M. F., Rubinchik, S. M.

Title : News Items ["Khronika"]

Periodical : Khim. prom., No 2, 114-119 (50-55), Mar 1955

Abstract : This section contains items on a conference dealing with the application of the method of tracer atoms in the chemical industry (Moscow, 1-3 Mar 1955), a conference of workers of planning ["project"] organization of the Ministry of Chemical Industry USSR (Moscow, Feb 1955), a branch meeting of workers at enterprises of the Main Administration of the Rubber Industry, the results of competitions conducted in the 4th quarter of 1954, and the results of work done by inventors and persons who have improved efficiency in the chemical industry during 1954.

USSR/Chemistry - Miscellaneous FD-3016

Card 1/1 Pub. 50 - 17/17

Authors : K.; Kreysberg, A. Ya.; A. S.; Yakovlev, M. F.

Title : News section

Periodical : Khim. prom. No 6, 373-381, Sep 1955

Abstract : Items in this section discuss the necessity of introducing more modern chemical plant equipment, with reference to the fact that in some branches of production the USSR industry is behind foreign chemical industry as far as equipment is concerned; the desirability of expediting development work on tubeless automobile and aircraft tires, so that production of these tires may be started promptly; unsatisfactory progress in the construction of dwellings at chemical plants; outstanding accomplishments by individual workers in the synthetic ammonia industry; socialistic competition among furnace workers of the Main Administration of Chemical Industry, plans of research work and technical development in the sulfuric acid and fertilizers industry; the 5th Plenary Session, Central Committee of the Labor Union of Workers of the Chemical Industry; and the production of polyethene at atmospheric pressure.

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Results of all-Union socialist competition of workers within professional categories in the second quarter of 1956. Khim.prom. no.6:380-383 S '56. (MLRA 10:2)
(Chemical industries)

YAKOVLEV, M.F.

Connection of technical education and education through work with aesthetic education. Politekh. obuch. no.7:26-30 Jl '59.
(MIRA 12:9)

1. Khabarovskiy pedagogicheskiy institut.
(Aesthetics--Study and teaching)

YAKOVLEV, M.F.; VASIL'YEVA, V.A.; VIKHROV, P.P.; IVANENKO, I.P.; POGORELOV, G.I.; TROITSKIY, N.L.

General inspection of the work organization level in factories. Tekst.prom. 20 no.6:51-53 Je '60. (MIRA 13:7)

1. Nachal'nik podotdela organizatsii truda Mosoblsovnarkhoza (for Yakovlev). 2. Tekhnicheskiye inspektora Moskovskogo otdeleniya soveta profsoyuzov pri obkome profsoyuza rabochikh tekstil'noy i legkoy promyshlennosti (for all except Yakovlev).
(Moscow Province—Textile factories)

YAKOVLEV, Mitrofan Fedorovich; CHERNOV, Ye., red.; KUZNETSOVA, A., tekhn. red.

[Ways of increasing the production of articles made of plastics] Kak uvelichit' vypusk izdelii iz plastmass. Moskva, Mosk. rabochii, 1961. 38 p. (MIRA 14:11)
(Plastics industry)

SHEINA, Klavdiya Petrovna; YAKOVLEV, Mitrofan Fedorovich;
TUBOL'TSEV, M., red.; POKHLEBKINA, M., tekhn. red.

[Taking care of the most important] V zabote o glavnom.
Moskva, Mosk. rabochii, 1963. 109 p. (MIRA 16:9)
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(PHOTOGRAPHY, Flash-light) (Electron tubes)

YAKOVLEV, M.

YAKOVLEV, M.

How to repair "FED" and "Zorkii" cameras. Znan.sila no.1: insert 1-4 Ja'55. (MLRA 8:3)
(Cameras)

YAKOVLEV, M.

"Moment-23 S". Sov.foto 20 no.4:33-35 Ap '60. (MIRA 13:8)

(Shutters, Photographic)

YAKOVLEV, M.

What you should know about the repairing of the "Smena" shutter. (MIRA 14:7)
Sov.foto 21 no.7:35 Jl '61.
(Shutters, Photographic)

YAKOVLEV, M.

Design and maintenance of flash synchromization systems. Sov. foto 21 no.10:33-36 O '61. (MIRA 14:10)
(Photography, Flashlight) (Cameras)

YAKOVLEV, M.

When the shutter lever doesn't work... Sov.foto 22 no.3:34-35 M.. '62. (MIRA 15:2)

(Shutters, Photographic)

YAKOVLEV, M.

Setting device on the "Start" camera. Sov. foto 23 no.6:33-34 Je '63. (MIRA 16:7)

(Photography—Apparatus and supplies)

YAKOVLEV, Mikhail Fedorovich; IOFIS, Ye.A., kand. tekhn. nauk, red.; FOMIN, A.A., red.; MALEK, Z.N., tekhn. red.

[Repair of cameras]Remont fotoapparatov. Pod red. E.A.Iofisa. Moskva, Iskusstvo, 1962. 191 p. (Biblioteka fotoliubitelia, no.29) (MIRA 15:10)

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(Rostov Province--Hamsters) (Hamsters--Rostov Province)

AVERSHIN, S.G., prof., doktor tekhn. nauk, red.; BLOKHA, Ye.Ye., gornyy inzh., red.; BUTKEVICH, T.V., gornyy inzh., red.; KRIKUNOV, L.A., gornyy inzh., red.; LISHUTIN, B.G., gornyy inzh., red.; OGLOBLIN, D.N., prof., doktor tekhn. nauk,, red.; OMEL'CHENKO, A.N., kand. tekhn. nauk, red.; RYZHOV, P.A., prof., doktor tekhn. nauk,; GLAZENAP, K.K., inzh., red.; KONSTANTINOVA, L.F., inzh., red.; NIKITINA, M.M., inzh., red.; NOVOSELOVA, Yu. A., inzh., red.; SHUL'GO, Ye. I., inzh., red.; YAKOVLEV, M.G., inzh., red.; RASHKOVSKIY, Ya.Z., inzh., red.; STEL'MAKH, A.N., red. izd-va,; BEHLOV, A.P., tekhn. red.; NADEINSKAYA, A.A., tekhn. red.

[Transactions of the All-Union Scientific and Technical Conference on Mine Surveying July 17-23, 1956] Trudy vsesoiuznogo nauchno-tekhnicheskogo soveshchania po marksheiderskomu delu 17-23 iulia 1956 g. Moskva, Ugletekhizdat, 1958, 743 p. (MIRA 11:12)

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"The improvement of the aviation method of fighting the sand-rats in the Volga-Ural focus of the plague." Page 264

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